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August 16, 2013



Sent via email

David Duster
U.S. Environmental Protection Agency
Region 8, 8ENF-T
999 18th Street, Suite 300
Denver, Colorado 80202-2466

RE: Apex Inspection Reports – January 2013 thru July 2013

Dear David:

Attached are inspection reports for January 2013 thru July 2013.

Sincerely

Paul L. Glader

Manager Environmental Services

Encl

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date:/	/27/	13		
Inspector:	D-1	zuv-		· .
Cover System Component	Pc	tential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA	NA
	Subsidence		Minor: ponding < 1" some gullying / erosion Significant: see Table 2	Yes No
			,	Yes _* No
	Embankm	ent Slope Stability	excessive movement or surface cracks > than 1"	Yes _* No _
		on top	depth > 1"	Voc. * No.
Cover System (outslopes, top,	tem or on ou	at embankment crest or on outslope	depth > 2"	Yes _* No _
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No _
		in diversion channel at any other location	NA	NA
	Erosion P	rotection Stability	rock subsiding or missing	Yes * No
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No
	Diversion (Channel	rock in place, channel not moving, fence stable	Yes 🗸 * No
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes * No _
	Excessive lines in div	silt build up at fence version channel	allowed if not effecting cover system	Yes _* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Form 2 of 4 - Site Perimeter

	Inspection Date. 1774/13
in party in grating	Inspector: 1. / zum
	Visible Outlying Areas
Observed Condition:	Nothing out of the ardinary
Observed Damage:	None
	May require repair: Yes* No
	Property Boundary Fence and Gate (walk fence line)
Observed Condition:	NO New problem
Observed Damage:	NONE
Potential Corrective Actions:	Monle
	May require repair: Yes* No
	All Upgradient Areas (areas that drain onto property)
Observed Condition:	No Change
Observed Damage:	Nonte
	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date: 1/27/13	
	Outslopes	
Observed Performance;	Rock Cover Subsidence: Yes No	May require repair: Yes* No
	Excessive Slope Movement (failure): Yes No	May require repair: Yes* No
	Gully Development: Yes No	May require repair: Yes* No
,	Observable Leachate (colored): Yes No	May require repair: Yes* No
	Excessive Siltation (at slope toe): Yes No	May require repair: Yes* No
Observed Damage:	Vine-	
Potential Corrective Actions:	Non-	
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No	May require repair: Yes* No
	Settlement / Evidence of Ponding: Yes No	May require repair: Yes* No
	Erosion / Gullying: Yes No Yes	May require repair: Yes* No
Observed Damage:	love	
Potential Corrective Actions:	Nente	
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes No	May require repair: Yes* No
	Rock Subsiding: Yes No	May require repair; Yes* No
	Missing Rock: Yes No	May require repair: Yes* No
Observed Damage: N	WA-	
Potential Corrective Actions:	lente	

* mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

D 1	07/12		
Date:/_ Inspector:/_	21/13 Tru		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes No _	May require repair: Yes* No
	Normal Flow Channel in place:	YesNo	May require repair: Yes* No
	Encroaching on Site Fencing:	Yes _ No _	May require repair: Yes* No
Observed Damage: /\	line		
Potential Corrective Actions:	nlene		
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Diversion Swales Yes No	May require repair: Yes _* No
	Erosion Protection in place: Flow Channel Silting In:	a. O timo bando e "sarti Gerra en esta forma en esta la distribución de la distribución de la distribución de L	May require repair: Yes _ * No May require repair: Yes _ * No
		Yes No	
Performance:	Flow Channel Silting In:	Yes No Yes No	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: 2	18/	/3		
Inspector:	<u> </u>	Trum	· · ·	
Cover System Component	Po	otential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA	NA
	Subsidence		Minor: ponding < 1" some gullying / erosion	Yes _* No _
-			Significant: see Table 2	Yes _* No _
	Embankme	ent Slope Stability	excessive movement or surface cracks > than 1"	Yes _* No _
	'	on top	depth > 1"	Vos * No
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes * No
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No _
		in diversion channel at any other location	NA	NA
	Erosion P	rotection Stability	rock subsiding or missing	Yes * No
	Seepage		no colored seepage allowed (red, blue, yellow w/crystallization)	Yes * No
	Diversion (Channel	rock in place, channel not moving, fence stable	Yes V* No
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes _* No
	Excessive lines in div	silt build up at fence version channel	allowed if not effecting cover system	Yes _* No _

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspec	tion Date:	3/18/	13						
		Inspector:	D. P	·						
			Visible	Outlying	Areas					(数) (本) (4)
Observed Condition:	No Char	<i>y</i> -	<u> </u>					N	S. John S. Santager	
Observed Damage:	NONE				- · ·					1
							May require	repair: Yes	* No 🗹	_
		Property Bot	undary F	ence and	Gate (walk	r fence l	ine)			
Observed Condition:	Feren of	g11-				5 No. 16 57 120 1 1 1 1 1			e Maria de Cara de Maria	
Observed Damage:	pon									
Potential Corrective Actions;	hore			ie						
					,		May require	repair: Yes	* No _	_
		All Upgradie	nt Areas	(areas tha	it drain ont	lo prope	rty)			
Observed Condition:	Normal	<u> </u>			<u>an managa</u> sa sang	en eger ere ere egg			togate ye ar t	
Observed Damage:	North							<u> </u>		
							May require	repair: Yes	* No _4	_

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date	: 2/18/13 pootor: D. Ru			
		Outslo	pes		
Observed Performance:	Rock Cover Subsidence;	Yes N	10 <u>/</u> M	/lay require repair: Yes _	* No /
	Excessive Slope Moveme	ent (failure): Yes N	o 🗸 N	lay require repair: Yes	_* No 🗸
	Gully Development:	Yes No	N	lay require repair: Yes _	_* No
	Observable Leachate (co	olored): Yes No	N N	May require repair: Yes _	_* No
	Excessive Siltation (at sl	ope toe): Yes No		lay require repair: Yes	_* No
Observed Damage:	formal				
Potential Corrective / Actions:	Var—				
		Top (top sur	face soils)		
Observed Performance:	Cracking (>1" width):	Yes No _		May require repair: Yes	No
	Settlement / Evidence of	Ponding: Yes No _	<u>/</u>	May require repair: Yes	_* No _
	Erosion / Gullying:	Yes No _	✓.	May require repair: Yes	_* No
Observed Damage:	conul				
Potential Corrective Actions:	Morle				
		Erosion Protection	n Layer (rock)	STORE CONTRACTOR SANCTOR THE CONTRACTOR SANCTOR SANCTOR SANCTOR SANCTOR	
Observed Performance:	Rock Staying in Place:	Yes No		May require repair: Yes	_* No 🗹
	Rock Subsiding:	Yes No		May require repair: Yes	* No
····	Missing Rock:	Yes _ No _		May require repair: Yes	_* No _
Observed Damage;	100-				
Potential Corrective Actions:	non-	•			

mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date: 2 Inspector:	18/13		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	YesNo	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No _	May require repair: Yes* No
	Encroaching on Site Fencing:	Yes No	May require repair: Yes* No
Observed Damage:	102-		
Potential Corrective // Actions:	m-	-	
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Diversion Swales Yes No	May require repair: Yes* No
	Erosion Protection in place: Flow Channel Silting In:		May require repair: Yes _* No May require repair: Yes _* No
	·	Yes No	
	Flow Channel Silting In:	Yes No Yes No Yes	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date:	MARCE	13 2013		
Inspector:		· Trima		
Cover System Component	Po	otential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA	NA
	Subsidenc	ce	Minor: ponding < 1" some gullying / erosion	Yes √ * No
			Significant: see Table 2	Yes _* No <u> </u>
	Embankm	ent Slope Stability	excessive movement or surface cracks > than 1"	Yes _* No _
	,	on top	depth > 1"	Voc. * No. V
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes _ * No
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No <u>√</u>
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No _
		in diversion channel at any other location	NA	NA
:	Erosion P	rotection Stability	rock subsiding or missing	Yes * No 🗸
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No
	Diversion (Channel	rock in place, channel not moving, fence stable	Yes 🗸 No
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes V* No
	Excessive lines in div	silt build up at fence version channel	allowed if not effecting cover system	Yes _* No _

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date: 3 - / 3	5 - 13
	Inspector: D IR	innad
	Visible Out	ying Areas
Observed Condition:	Normal	
Observed Damage:	Nove	
		May require repair: Yes* No
	Property Boundary Fence	and Gate (walk fence line)
Observed Condition:	No problems	
Observed Damage:	Nove	
Potential Corrective Actions:	None	
i		May require repair: Yes* No _i
	All Upgradient Areas (are	as that drain onto property)
Observed Condition:	No Change	
Observed Damage:	None	
		May require repair: Yes* No _•

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date	3-13-13 norther D- Trumas	~
		Outslopes	
Observed Performance:	Rock Cover Subsidence:	Yes No 🗸	May require repair: Yes* No
	Excessive Slope Moveme	ent (failure): Yes No	May require repair: Yes* No
	Gully Development:	Yes _ No _	May require repair: Yes* No
	Observable Leachate (co	olored): Yes No 🗸	May require repair: Yes* No
	Excessive Siltation (at si	ope toe): Yes _ No _	May require repair: Yes* No
Observed h	J& Change		
Potential Corrective Actions:	None		
		Top (top surface so	ls)
Observed Performance:	Cracking (>1" width):	Yes No	May require repair: Yes* No
	Settlement / Evidence of	Ponding: Yes No	May require repair: Yes* No/
	Erosion / Gullying:	Yes No	May require repair: Yes* No
Observed Damage:	No Chonge		
Potential Corrective Actions:	No Chonge None		
		Erosion Protection Laye	ır (rock)
Observed Performance:	Rock Staying in Place:	Yes VNo	May require repair: Yes* No
	Rock Subsiding:	Yes _ No _	May require repair: Yes* No
	Missing Rock:	Yes No	May require repair: Yes* No
Observed Damage:	NONE		
Potential Corrective Actions:	NONe	·	

" mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date: ろ	12-13		
Inspector:	Difrum		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes i No _	May require repair: Yes* No
	Normal Flow Channel in place:	Yes VNo _	May require repair: Yes* No
	Encroaching on Site Fencing:	Yes No	May require repair: Yes* No
Observed Damage:	10 Change		
Potential Corrective Actions:	N on ~		
er e		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Diversion Swales YesNo	May require repair: Yes* No
	Erosion Protection in place: Flow Channel Silting In:	e Teath ann an thair an tag an an tag an	May require repair: Yes* No May require repair: Yes* No
	·	Yes VNo	
Performance:	Flow Channel Silting In	Yes No Yes No	May require repair: Yes* No*

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: 4/	28/13			
Inspector:	<u> </u>	kums		
Cover System Component	Pc	otential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA ·	NA
	Subsidence		Minor: ponding < 1" some gullying / erosion	Yes* No
			Significant: see Table 2	Yes _* No <u></u>
			excessive movement or surface cracks > than 1"	Yes _* No <u> </u>
		on top	depth > 1"	Vac + Na V
Cover System (outslopes, top, rock)		at embankment crest or on outslope	depth > 2"	Yes _ * No _
	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No _/
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No
		In diversion channel at any other location	NA .	NA
	Erosion P	rotection Stability	rock subsiding or missing	Yes * No 🗸
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No
	Diversion (Channel	rock in place, channel not moving, fence stable	Yes * No
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes No
- !	Excessive lines in div	silt build up at fence version channel	allowed if not effecting cover system	Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

		Inspection [Date: 4	128/	13					•				
		Inspe	ctor:	′ ¬;-	Teun	nsi								•
				Visible			as	HORSE Higher						
Observed Condition:	Nº	Change.												
Observed Damage:	None		<u></u>	<u> </u>										
									May re	quire re	pair: Ye	es _	_* N	<u>ا_</u>
		Prop	erty Bou	ındary Fe	ence a	nd Ga	te (walk f	ence	line)		ir ingi Mari			
Observed Condition:	Kerei	- i gat-	look	gord.										
Observed Damage:	Nevic		32				-			- :				
Potential Corrective Actions:	Now	_											-	
									May re	quire re	pair: Ye	es _	_* N	<u> </u>
		All Ü	pgradier	nt Areas	(areas	that d	rain onto	prope	erty)					
Observed Condition:	Goi													
Observed Damage:	NON	-				<u> </u>								
									May re	quire re	pair: Ye	es _	_* N	<u>√</u>

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date	: cf/28/1	1. Trum	<u>~</u>		
			Outslopes			
Observed Performance:	Rock Cover Subsidence:	Yes	_ No _		May require repair: Yes _	_* No _/
	Excessive Slope Moveme	ent (failure): Yes	_ No _		May require repair: Yes _	_* No 🗾
	Gully Development:	Yes	_ No _		May require repair: Yes	_* No _
	Observable Leachate (co	lored): Yes	_ No _		May require repair: Yes	_* No
	Excessive Siltation (at slo	ope toe): Yes	No <u>/</u>		May require repair: Yes	_* No
Observed Damage: N	m/~					
Potential Corrective A Actions:	Vale					
		Top (t	top surface soils	s)		
Observed Performance:	Cracking (>1" width):	Yes	No 🖊		May require repair: Yes	_* No <u>/</u>
	Settlement / Evidence of	Ponding: Yes	_ No _	•	May require repair: Yes	** No
	Erosion / Gullying:	Yes	_ No <u></u>		May require repair: Yes	* No
Observed Damage:	love					·
Potential Corrective /\ Actions:	lone					
		Erosion Pr	rotection Layer	(rock)		
Observed Performance:	Rock Staying in Place:	Yes VNo _	- ,		May require repair: Yes	_* No _
	Rock Subsiding:	Yes No 🗸	<u>/</u>		May require repair: Yes	* No
	Missing Rock:	Yes No	/ -		May require repair: Yes	* No
Observed Damage:	(mie					
Potential Corrective Actions:	YONE					

- mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date:	128/13 2-12mm		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes V No	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No	May require repair: Yes* No/
	Encroaching on Site Fencing:	Yes No	May require repair: Yes* No/
Observed Damage:	Nave		
Potential Corrective Actions:	Nove	;	
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Yes V No	May require repair: Yes* No
	Flow Channel Silting In:	Yes No	May require repair: Yes* No/
	Head Cutting:	Yes No 1	May require repair: Yes* No
Observed Damage:	Nove		
Potential Corrective Actions:	Nove		

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: <u>5-</u>	7-15			
Inspector:) - Tru		· ·	
Cover System Component	Po	otential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA	NA
	Subsidence		Minor: ponding < 1" some gullying / erosion Significant: see Table 2	Yes No
			Olymnount: 355 Public 2	Yes _* No _
,	Embankm	ent Slope Stability	excessive movement or surface cracks > than 1"	Yes* No
		on top	depth > 1"	Vac * Na
Cover System (outslopes, top, rock)	Gullying	at embankment crest or on outslope	depth > 2"	Yes _* No _
		w/in normal flow channel in diversion channel	no guilying allowed	Yes _* No _
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No _
		in diversion channel at any other location	NA	NA
	Erosion P	rotection Stability	rock subsiding or missing	Yes * No
	Seepage	:	no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No
	Diversion	Channel	rock in place, channel not moving, fence stable	Yes /* No
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes 🛂 No
	Excessive lines in div	silt build up at fence version channel	allowed if not effecting cover system	Yes _* No _

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date: 8-7-15
	Inspector: D. Jam
	Visible Outlying Areas
Observed Condition:	day & dusty
Observed Damage:	None
	May require repair: Yes* No 💆
	Property Boundary Fence and Gate (walk fence line)
Observed Condition:	gate & France look good
Observed Damage:	Norde
Potential Corrective Actions:	None
	May require repair: Yes* No
	All Upgradient Areas (areas that drain onto property)
Observed Condition:	No ch-g
Observed Damage:	NONE
	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date: 5-7- /3	
	Outslopes	
Observed Performance:	Rock Cover Subsidence: Yes No	May require repair: Yes _* Nov
	Excessive Slope Movement (failure): Yes No	May require repair: Yes* No
	Gully Development: Yes No	May require repair: Yes _* No
	Observable Leachate (colored): Yes No	May require repair: Yes* No
	Excessive Siltation (at slope toe): Yes No	May require repair: Yes* No
Observed Damage:	lon ~	
Potential Corrective / Actions:	Valu	
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No	May require repair: Yes* No/
	Settlement / Evidence of Ponding: Yes No	May require repair: Yes* No
	Erosion / Gullying: Yes No No	May require repair: Yes* No
Observed Damage:	Vole	
Potential Corrective Actions:	Norte	_
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes Vo No	May require repair: Yes* No
	Rock Subsiding: Yes No/	May require repair: Yes* No*
	Missing Rock: Yes No	May require repair: Yes* No/
Observed Damage: N	lon-	
Potential Corrective Actions:	None	

- mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date: Inspector:	5-9-13 D. Tour		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes No _	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No No	May require repair: Yes* No/
	Encroaching on Site Fencing:	Yes _ No _	May require repair: Yes* No
Observed Damage: (late		
Potential Corrective Actions:	None		
建筑工具建筑器建筑等建筑 。		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Yes V No	May require repair: Yes* No/
	Erosion Protection in place: Flow Channel Silting In:	an da ingan ake makeu akeun kemalan da an dan da an da a Tangan da an d	May require repair: Yes* No/ May require repair: Yes* No/
		Yes V No	/
Performance:	Flow Channel Silting In:	Yes V No Yes No V	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date:	/5/13	3		
Inspector:	D=1	ziemtal		
Cover System Component	Pc	tential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA	NA
	Subsidence		Minor: ponding < 1" some gullying / erosion Significant: see Table 2	Yes _* No
	Embankm	ent Slope Stability	excessive movement or surface cracks > than 1"	Yes _ No _
		on top	depth > 1"	Voc. * No.
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes * No 🗸
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No
		in diversion channel at any other location	NA	NA
	Erosion Pi	rotection Stability	rock subsiding or missing	Yes * No 🗸
	Seepage		no colored seepage allowed (red, blue, yellow w/crystallization)	Yes * No
	Diversion (Channel	rock in place, channel not moving, fence stable	Yes V * No
Runoff Control System	Diversion S	Swales	rock in place, no silting in or head cutting	Yes V * No
		silt build up at fence version channel	allowed if not effecting cover system	Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date: 6/5/13/
:	Inspector: D. Truman
	Visible Outlying Areas
Observed Condition:	No problems Dry
Observed Damage:	Norte
	May require repair: Yes* No 🗾
	Property Boundary Fence and Gate (walk fence line)
Observed Condition:	No Change
Observed Damage:	Norta
Potential Corrective Actions:	Norte
	May require repair: Yes* No 👱
	All Upgradient Areas (areas that drain onto property)
Observed Condition:	No problems
Observed Damage:	None
	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date:	notor:	5/13 D-12	<u>unar</u>		
			Outslo	pes		
Observed Performance:	Rock Cover Subsidence:		Yes N	· <u>/</u>	May require repair: Yes	* No
	Excessive Slope Moveme	nt (failure):	Yes N	o <u>v</u>	May require repair: Yes	* No 🛩
	Gully Development:		Yes No	$\underline{\checkmark}$	May require repair: Yes	_ * No <u>~</u>
	Observable Leachate (col	lored):	Yes No	\checkmark	May require repair: Yes	_* No _
	Excessive Siltation (at slo	ope toe):	Yes No	✓	May require repair: Yes	_ * No 📈
Observed Damage:	Non-		<u> </u>			
Potential Corrective Actions:	Node					
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		Top (top surf	ace soils)		
Observed Performance:	Cracking (>1" width):	Y	es No]	<u> </u>	May require repair: Ye	s _* No <u>~</u>
	Settlement / Evidence of	Ponding: Ye	es No <u>1</u>	_	May require repair: Y	'es* No
	Erosion / Gullying:	Y	es No <u>\</u>		May require repair: Ye	s No
Observed Damage: N	a problems					
Potential Corrective Actions:	Norte					
		Erosl	on Protectio	n Layer (rock)		
Observed Performance:	Rock Staying in Place:	Yes V	No		May require repair: Ye	es _* No <u>/</u>
	Rock Subsiding:	Yes N	40 <u>V</u>		May require repair: Ye	es _* No _/
	Missing Rock:	Yes N	No 🗹		May require repair: Y	/es _* No _
Observed Damage:	Voxe					
Potential Corrective Actions:	Some		•			

" Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date: Inspector:	le/5/13 /		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes 🖊 No _	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No	May require repair: Yes* No/
	Encroaching on Site Fencing:	Yes No	May require repair: Yes* No
Observed Damage:	None		·
Potential Corrective Actions:	Noue		
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Diversion Swales Yes No	May require repair: Yes* No
	Erosion Protection in place: Flow Channel Silting In:	ika, ta kapat kananga merendungan kapamak sebahan palaksan menenggan menjada sebahan sebahan sebahan sebahan s P	May require repair: Yes* No May require repair: Yes* No
	·	Yes V No	– –
	Flow Channel Silting In:	Yes No	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: 7/35/13								
Inspector:). TRU	nan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Cover System Component	Potential Problem		Allowable Limits	Limits Potentially Exceeded				
Site Perimeter	Erosion or Fencing Issues		NA	NA				
	Subsidence		Minor: ponding < 1" some gullying / erosion	Yes* No				
Cover System (outslopes, top, rock)			Significant: see Table 2	Yes _* No _				
	Embankment Slope Stability		excessive movement or surface cracks > than 1"	Yes* No				
	Gullying	on top	depth > 1"	Voc + No				
		at embankment crest or on outslope	depth > 2"	Yes _ * No _				
		w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No				
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No				
		in diversion channel at any other location	NA	NA				
	Erosion Protection Stability		rock subsiding or missing	Yes * No				
:	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No				
	Diversion Channel		rock in place, channel not moving, fence stable	Yes 🗸 No				
Runoff Control System	Diversion Swales		rock in place, no silting in or head cutting	Yes 🗸 No				
	Excessive lines in div	silt build up at fence version channel	allowed if not effecting cover system	Yes _* No _				

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date:	7/25/13	
	Inspector:	D. Tannad	
		Visible Outlying Areas	
Observed Condition:	Dry. Noval		
Observed Damage:	NONE		
		May require repair: Yes*	No 🔽
	Property Bo	oundary Fence and Gate (walk fence line)	
Observed Condition:	No Publens		
Observed Damage:	Nurla		
Potential Corrective Actions:	None		
:		May require repair: Yes*	' No
	All Upgradie	ent Areas (areas that drain onto property)	
Observed Condition:	NO Changa		
Observed Damage:	NUN-		
		May require repair: Yes	· No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date: 7/25/13	
	Outslopes	
Observed Performance:	Rock Cover Subsidence: Yes No	May require repair: Yes* No
	Excessive Slope Movement (failure): Yes No	May require repair: Yes* No
	Gully Development: Yes No	May require repair: Yes* No
	Observable Leachate (colored): Yes No	May require repair: Yes* No
	Excessive Siltation (at slope toe): Yes No	May require repair: Yes* No
Observed Damage:	10 perblus	
Potential Corrective Actions:	None	
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No	May require repair: Yes* No
	Settlement / Evidence of Ponding: Yes No	May require repair: Yes* No ∠
	Erosion / Gullying: Yes No Yes No	May require repair: Yes* No
Observed No.	y groblum.	
Potential Corrective Actions:	None	
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes No	May require repair: Yes* No
	Rock Subsiding: Yes No	May require repair: Yes* No
	Missing Rock: Yes No No	May require repair: Yes* No
Observed No.	₩	
Potential Corrective Actions:	X/BY Law	

- mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

	11-113	•	
Date: 7	D. Trumo		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes No	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No	May require repair: Yes* No
	Encroaching on Site Fencing:	Yes _ No _	May require repair: Yes* No
Observed Damage: 入	10 Dante		•
Potential Corrective Actions:	M UM samon		
		Diversion Swales	
Observed			
Performance:	Erosion Protection in place:	YesNo	May require repair: Yes* No
	Erosion Protection in place: Flow Channel Silting In:	Yes No	May require repair: Yes* No May require repair: Yes* No
	·		· — —
Performance:	Flow Channel Silting In:	Yes _ No _	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.